

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



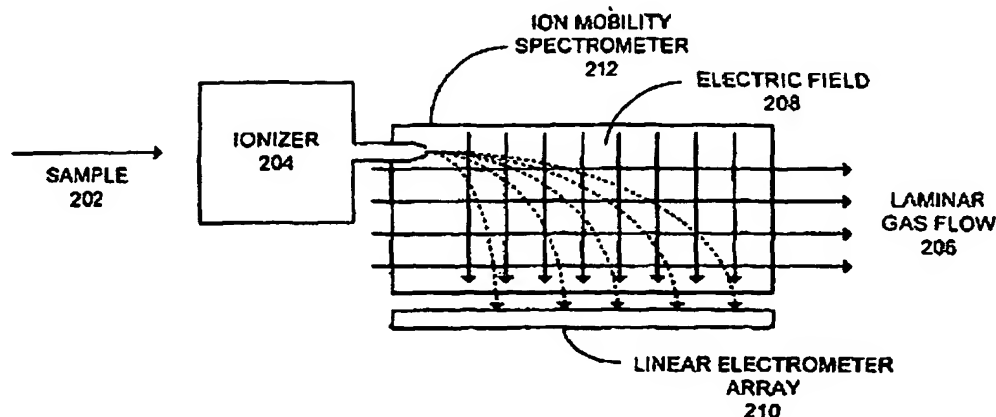
(43) International Publication Date
10 June 2004 (10.06.2004)

PCT

(10) International Publication Number
WO 2004/048924 A3

- (51) International Patent Classification⁷: **G01N 21/71**, 24/00, 27/00
- (21) International Application Number:
PCT/US2003/036183
- (22) International Filing Date:
14 November 2003 (14.11.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/428,561 22 November 2002 (22.11.2002) US
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report:
12 August 2004
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND APPARATUS FOR PERFORMING ION MOBILITY SPECTROMETRY



(57) Abstract: New method and apparatus for performing ion or particle mobility spectrometry are disclosed. The method comprises ionizing a sample in an ionizer 204, injecting the ionized sample into a laminar gas flow 206 and applying an electric field 208 across the laminar gas flow. The combination of the laminar gas flow and the electric fields results in spatial separation of analyte ions based on ion mobility. The separated ions contact different elements of an electrometer array 210, with the output of the array being analysed to determine the mobility of the analyte ions.



WO 2004/048924 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/36183

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G01N 21/71, 24/00, 27/00

US CL : 436/153, 173; 422/98

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 436/153, 173; 422/98

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/022049 A2 (HALEY et al.) 29 MARCH 2001 (29.03.2001), the whole text	1-5, 7-8, 10-15, 17-11-5, 7-8, 20-25, 27-28, 30
X — Y	YONG et al. (US 3,902,064) 26 August 1975 (19.08.1995), Abstract, col. 2, lines 58-69	1-5, 7-8, 10-15, 17-11-5, 7-8, 20-25, 27-28, 30 9, 19, 29
X — Y	GUEVREMONT et al. Atmospheric Pressure Ion Trapping in a Tandem FAIMS-FAIMS Coupled to a TOFMS: Studies with Electrospray Generated Gramicidin S Ions", J. Am. Soc. Mass Spectrom., 12, 1320-1330 (2001).	1-5, 7-8, 10-15, 17-18, 20-25, 27-28, 30 6, 16, 26

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"&"

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Date of the actual completion of the international search

11 June 2004 (11.06.2004)

Date of mailing of the international search report

23 JUN 2004

Name and mailing address of the ISA/US

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PCT/US03/36

Continuation of B. FIELDS SEARCHED Item 3:
EAST, STN, Google

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